

		LABORATO	DRY REPORT		
Reg. No	:	30100200114	Reg. Date	:	20-Jan-2023 10:34
Name	:	SUPARNA PAL	Collected on	:	20-Jan-2023 10:34
Sex/Age	:	Female / 41 Years	Approved Date	:	30-Jan-2023 17:44
Ref. By	:		Tele. No	:	9833253102
Location	:	LILAC INSIGHTS PVT. LTD. @ MUMBAI	Dispatch At	:	

Please find detailed report of NGS Oncomine Precison GX Assay (DNA mutations, CNVs, RNA Fusions)(Liquid biopsy) in the following pages.

----- End Of Report -----

Ann

Dr. Neeraj Arora M.D (Path), PDF (Mol Haemat), PDF (Haematopath) 22396

Patient Details

Patient Name	SUPARNA PAL	Sample Id/LabID	30100200114
Gender	Female	Sample Type	Peripheral Blood in Streck tube:10ml
DOB/AGE	41 yrs	Date of Sample Collection	20/01/2023
Ref.By	LILAC INSIGHTS PVT. LTD.	Date of Receipt	20/01/2023
		Date of Report	30/01/2023

NGS Oncomine Precision GX Assay (DNA mutations, CNVs, RNA Fusions)-Liquid Biopsy

Clinical Details:

Diagnosed case of Metastatic Ca lung -B/L lung mets- Adenocarcinoma satge-4 ALK, EGFR, PDL1, Neg, ROS not done. (On treatment)

RESULT

NEGATIVE:

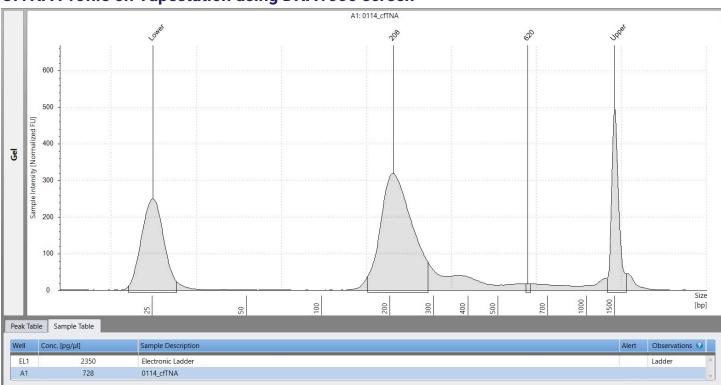
- No Clinically Relevant Pathogenic Mutations Identified.
- No Fusion Identified.

Comments:

These findings should be corelated with other clinical and laboratory tests for a definite conclusive interpretation.

Methodology

Nucleic acid (DNA/RNA) was extracted from provided peripheral blood in streck tube, using Standard Total Nucleic Acid Isolation Kit as per user manual. Automated library preparation and sequencing run was perfomed using Oncomine Precision assay GX on Genexus platform as per user manual. Generated data was analyzed using on board analysis software with default filter chain. Default filter chain is optimized for reporting detected variants with the Oncomine[™] Precision Assay GX. This filter chain provides results for INDELs and SNV variant types, and minor allele frequencies between 0.0 and 1.0E-6 based on 5000Exomes and ExAC annotation source databases that have homopolymer lengths less than or equal to 7 and allele frequencies between 0.05 and 1.0.



CfTNA Profile on Tapestation using DNA1000 screen

Run QC statistics

Sample is sequenced at Average base coverage depth of 35,666. The Target base coverage at 500X is 100.0%.



- Pathogenic: The pathogenic variant are the one which is believed to account for the symptoms. It increases an
 individual's susceptibility or predisposition to a certain disease or disorder. This mutation is always included in
 results section of report.
- Likely Pathogenic: The likely pathogenic variant are the one which most likely have harmful effect but, there is
 insufficient evidence that a variant is the definite cause for symptoms. This mutation is always included in results
 section of report
- Variant of Uncertain Significance: The Variant of Uncertain Significance (VUS) are the one which have limited and/or conflicting evidence regarding pathogenicity. Its exact effect on gene function is not known. With more information available over time, a VUS may be reclassified as likely pathogenic or likely benign. This mutation is always included in results section of report.

• Likely benign: The likely benign variants are the one which are most likely not associated with disease risk. However, additional evidence is needed to confirm this assertion. This mutation is not included in report

• Benign: The benign variants are the one which are represented by alteration in gene compare to wild-type allele but it is not associated with disease risk. This mutation is not included in report.

Tier I	Variants with strong	Level A evidence	FDA-approved therapy included in professional guidelines	
	clinical significance	Level B evidence	Well-powered studies with consensus	
			from leaders in the field	
Tier II			FDA-approved therapies for different	
	Variants with potential clinical significance	Level C evidence	tumor types or investigational therapies.	
			Multiple small published studies with	
			some consensus	
		Level D evidence	Preclinical trials or few case reports	
			without consensus.	
Tier III			Not observed at significant allele	
			frequency in the general or specific	
	Variants of unknown		subpopulation databases, or pan-cancer	
	clinical significance		or tumor-specific variant databases. No	
			convincing published evidence of cancer	
			association	

Evidence Based Variant Classification

Genes Assayed

Genes Assayed for the Detection of DNA Sequence Variants

AKT1, AKT2, AKT3, ALK, AR, ARAF, BRAF, CDK4, CDKN2A, CHEK2, CTNNB1, EGFR, ERBB2, ERBB3, ERBB4, ESR1, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK2, NTRK3, PDGFRA, PIK3CA, PTEN, RAF1, RET, ROS1, SMO, TP53

Genes Assayed for the Detection of Copy Number Variations

ALK, AR, CD274, CDKN2A, EGFR, ERBB2, ERBB3, FGFR1, FGFR2, FGFR3, KRAS, MET, PIK3CA, PTEN

Genes Assayed for the Detection of Fusions

ALK, AR, BRAF, EGFR, ESR1, FGFR1, FGFR2, FGFR3, MET, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, RET, ROS1, RSPO2, RSPO3

Limitations and Disclaimer

1. This test was developed and its performance characteristics determined by Unipath Specialty Laboratory Ltd, Ahmedabad. It has not been cleared or approved by the US Food and Drug Administration and NABL.

2. This test is a screening test and enables researchers to develop tests that may impact treatment selection, treatment monitoring, and recurrence monitoring in the future

3. False negative results may be due to sampling issues, errors in sample handling, mislabelling, transportation issues, and technical limitations of the assay and mutations frequency below the limit of detection of the assay, i.e., 0.1% for somatic variants. It is also possible some complex insertion/deletion variants may not be identified.

4. Extreme low circulating mutant cell free DNA leads to false negative result. Therefore in all negative cases, it is recommended to perform retesting on fresh tissue biopsy/tissue block.

5. This test is not intended to detect minimal residual disease.

6. Results of this test need be interpreted within the context of clinical findings and other relevant clinical and laboratory data and should not be used alone.

Report Signed by:

DR. SPANDAN CHAUDHARY, Ph.D (Sr. Scientist, NGS Division)

DR. EKTA JAJODIA, MD (Path.), PDF (Mol. Hemat), Consultant Pathologist

Neeroj Arom

DR. NEERAJ ARORA, MD , PDF (Mol.Hemat), PDF (Haematopath) Lab Director